## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A mobile telecommunications network including:

\_\_\_\_\_\_a plurality of base station systems (10) adapted arranged to communicate with a mobile terminal (1) over a predetermined licensed radio interface and switching centers (202) connected to a plurality of said base station systems (10), wherein each switching center (202) and the base station systems (10) connected thereto share a location area identity, said base station systems (10) being adapted to communicate information indicative of said location area identity to a mobile terminal (1),

wherein characterised in that said network further includes at least two unlicensed-radio access networks, each comprising an access point network controller (303) connected to one of said switching centers (202), multiple access points (303) adapted to communicate with said mobile terminal (1) via an unlicensed-radio interface [[, ]] and a fixed broadband network (302) connecting said plurality of access points (301) with said access network controllers (303) and a lookup table mapping a location area identity with address information for an access point network controller (303) on said fixed broadband network (302), and wherein each said access point is arranged to connect a mobile terminal with a default access network controller, said default access network controller being adapted to receive a request from said mobile terminal containing each said access point is adapted to information indicative of a last location area received by said mobile terminal, to submit a request to said lookup table containing said location area information, to receive address information from said lookup table for an access network controller mapped to said location area in response to said

request, and to transmit said address information to said mobile terminal via said access point.

receive from said mobile station information indicative of a last received location area, to receive from said lookup table address information for an access point controller (303) mapped to said address information enabling said mobile terminal said location identity and to establish a connection with said addressed access point network controller (303) via said access point and said fixed broadband network.



- 3. Canceled.
- 4. Canceled.
- 5. (Currently Amended) A network as claimed in claim 1, eharacterised in that wherein said mobile terminal is adapted to store at least part of said lookup table (40) is stored in said access point.
- 6. (Currently Amended) A network as claimed in claim 1, characterised in that wherein said default access network controller is adapted to store at least part of said lookup table (40) is stored in an access point controller (303) connected by default to said access point (301).
- 7. (Currently Amended) A network as claimed in claim 1, eharacterised in that wherein said fixed-broadband network is an internet protocol based network and said address is an internet

protocol address.

8. (Currently Amended) An unlicensed-radio access system connected to a core network portion of a licensed mobile network, said unlicensed-radio access system including:

a plurality of access points (301) adapted to communicate with mobile stations (1) over an unlicensed-radio interface, a plurality of access point-network controllers (303) connected to said core network portion (20) and a fixed-broadband network (302) connected to both said access points (301) and said access point-network controllers (303),

eharacterised in that wherein each said access point network controller (303) is associated with a location area in said licensed radio mobile network,

said system furthermore being provided with at least one lookup table containing information mapping location areas to address information of access point network controllers (303) on said fixed broadband network-(302),

wherein each access point (301) is adapted arranged to receive from a mobile station information indicative of a location area corresponding to a portion of said licensed mobile network, to obtain from said lookup table address information of an access point network controller (303) on said fixed broadband network (302) associated with said location area information, and to establish a connection with said addressed access point network controller (303) via said fixed broadband network.

 (Currently Amended) A system as claimed in claim 8, characterised in that wherein said lookup table is comprised in a database server located on said fixed broadband network (302).

- 10. (Currently Amended) A system as claimed in claim 8, further characterised in that wherein said access points are arranged to store at least part of the data in said lookup table is stored in said access points.
- 11. (Currently Amended) A system as claimed in <u>claims</u> 8 or 9, <u>characterised in that</u>

  <u>wherein said fixed broadband network is an internet protocol based network and said address</u>
  is an internet protocol address.
- 12. (Currently Amended) A system as claimed in claim 8, characterised in that wherein each access point (301) is connected for communication with a default access point network controller (303), wherein the access points are adapted arranged to connect to a different access point network controller (303) if the information indicative of a location area does not correspond to the fixed-broadband network address of said default access point network controller (303).
- 13. (Currently Amended) A method for establishing a connection between a mobile station terminal and a core network portion of a mobile communications network via an unlicensed-radio access network, said mobile communications network comprising:

\_\_\_\_access portions including base stations (10) and switching control parts (202) connected to said base stations, each switching control part (202) sharing a common location area identity with a plurality of said base stations and said base stations (101) being adapted arranged to communicate said location area identity to a mobile station terminal, said unlicensed-radio access

network (30) comprising at least one access point (103) adapted arranged to communicate with a mobile station (1)-via an unlicensed-radio interface, at least one access network controller (303) each connected to a switching control part-(202), a fixed-broadband network (302)-connected to said at least one access point-network controller (303) and access point (103) and a lookup table containing data mapping a location area identity with an address of one of said access network controllers (303) on said fixed broadband network (302), said method including the steps of: a default access network controller receiving information indicative of a location area identity from a mobile terminal via an access point; said default access network controller submitting a request to said lookup table using said location area identity information; receiving from said lookup table an address on said broadband access network of an access network controller associated with said location area identity; and relaying said address to said mobile terminal via said access point to enable said mobile terminal said access point (301) receiving from said mobile station information indicative of a location area identity, receiving from said lookup table the address of an access point controller (303) associated with said location area identity, establishing to establish a connection with said addressed access point network controller via said access point and fixed-broadband network-to-enable communication between said mobile station and said core network.

## 14. Canceled.

15. Canceled.

16. (Currently Amended) A method in an unlicensed radio access network for assigning and connecting access points (301)-to an access point-network controller-(303), said unlicensed radio access network including a plurality of access points (301)-a plurality of access controllers (303)-connected to a licensed mobile core network (20)-and a fixed-broadband network connected to said access controllers and for connecting to said access points, and wherein each access point-network controller is associated with a location area of said licensed mobile network, said method including the steps of:

\_\_\_\_\_\_receiving from said mobile station a location area indicator indicative of a location area of said licensed mobile network with which said mobile station was last in communication,

controller associated with said location area indicator, and

\_\_\_\_\_connecting said access point to said retrieved broadband network address of said an access point switching controller to establish a connection.

retrieving fixed broadband network address information for an access point switching

17. (New) An unlicensed-radio access network controller connected to a core network portion of a licensed mobile network and to a plurality of access points via broadband network, wherein said access network controller is arranged to communicate with a lookup table containing information mapping location areas to address information for addressing access network controllers on said broadband network,

said access network controller being further arranged:

to serve a mobile terminal as a default access network controller, and

• to receive from said mobile terminal information indicative of a location area corresponding to a portion of said licensed mobile network,

to obtain from said lookup table address information of an access network controller on said broadband network associated with said location area information, and to transmit said address information to said mobile station.